

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2017 Levee Inspection Results

Reclamation District No. 0787 Fair

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 0787 Fair

Waterway			Bank	Unit Miles
Unit No. 01 Colusa Basin Drain			Left	4.45
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/4/2017 - 5/4/2017			
DWR Inspector	Zach Jojola			
Accompanied By	Roger Cornwell Rivergarden Farms RD 787			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	05/04/2017 05/04/2017	Zach Jojola

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0787_01_s_2013_7				
Comment Code					
Inspector Comment					
RD 787 shares flood resources with RD 108 with a stockpile of flood response materials.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0787_01_s_2013_8				
Comment Code					
Inspector Comment					
RD 787 is current with O&M manuals.					

No Photos

LM Start		Rating **	M	Issue No.	10
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0787_01_s_2012_10				
Comment Code					
Inspector Comment					
RD 787 works jointly with RD 108 on training and flood response.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	05/04/2017 05/04/2017	Zach Jojola

LM Start	0.01	Rating **	M	Issue No.	4
LM End	1.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.799538 °	38.801832 °
				-121.725573 °	-121.750363 °
DWR ID	DWR_RD0787_01_s_2017_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.01	Rating **	U	Issue No.	5
LM End	4.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.799538 °	38.822494 °
				-121.725573 °	-121.795599 °
DWR ID	DWR_RD0787_01_s_2017_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD0787_212_5_20170504_00012.jpg



Tall grass on landside levee slope, blocking visibility. Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	05/04/2017 05/04/2017	Zach Jojola

LM Start	0.04	Rating **	M	Issue No.	21
LM End	0.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.799159 °	38.799159 °
				-121.725874 °	-121.725874 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:37585 DS_ID:22892 EP_NO: 9392 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch concrete pipe through the levee 17.0 feet below the crown. Slide gate in 36-inch standpipe on the waterward side (App. 9392 - River Garden Farms). 24-inch pipe from standpipe to pump house mounted on steel structure in channel. Pump and 24-inch steel pipe installed on the waterward side, 1962 (App. 3878 - river Garden Farms). FS Date: 6/10/2014					

Photo 1 of 3 : UCIP_SP_2017_37585_68154.jpg



View of landward slope.

LM Start	0.04	Rating **	M	Issue No.	21 (cont)
LM End	0.04	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_37585_68153.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	05/04/2017 05/04/2017	Zach Jojola

LM Start	0.04	Rating **	M	Issue No.	21 (cont)	
LM End	0.04	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.799159 °		38.799159 °
				-121.725874 °		-121.725874 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:37585 DS_ID:22892 EP_NO: 9392 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch concrete pipe through the levee 17.0 feet below the crown. Slide gate in 36-inch standpipe on the waterward side (App. 9392 - River Garden Farms). 24-inch pipe from standpipe to pump house mounted on steel structure in channel. Pump and 24-inch steel pipe installed on the waterward side, 1962 (App. 3878 - river Garden Farms). FS Date: 6/10/2014						

Photo 3 of 3 : UCIP_SP_2017_37585_68156.jpg



View of waterward side.

LM Start	0.39	Rating **	M	Issue No.	1
LM End	0.50	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.795931 °	38.795268 °
				-121.730627 °	-121.732566 °
DWR ID	DWR_RD0787_01_s_2016_1				
Comment Code					
Inspector Comment					
2011 - Large scallops throughout the entire reach. Toe scour due to tree pop-outs, resulting in a steepening slope. The reduced resistive forces plus clay levee may increase the loading. Additional erosion due to human use. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: CBD 0-5 L]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	05/04/2017 05/04/2017	Zach Jojola

LM Start	0.48	Rating **	M	Issue No.	6
LM End	0.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.795409 °	38.795409 °
				-121.732092 °	-121.732092 °
DWR ID	DWR_RD0787_01_s_2017_6				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

LM Start	0.67	Rating **	M	Issue No.	2
LM End	0.85	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.795486 °	38.796225 °
				-121.735647 °	-121.738902 °
DWR ID	DWR_RD0787_01_s_2016_2				
Comment Code					
Inspector Comment					
2011 - Large scallops throughout the entire reach. Toe scour due to tree pop-outs, resulting in a steepening slope. The reduced resistive forces plus clay levee may increase the loading. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: CBD_0-9_L]					

No Photos

LM Start	0.73	Rating **	M	Issue No.	9
LM End	0.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.795814 °	38.795814 °
				-121.736799 °	-121.736799 °
DWR ID	DWR_RD0787_01_s_2017_9				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Multipel cracks visibile on a 50' section of the waterside slope.					

Photo 1 of 1 : SP_2017_RD0787_212_9_20170504_00013.jpg



View of slope stability location on waterside slope. Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	05/04/2017 05/04/2017	Zach Jojola

LM Start	0.75	Rating **	A/W	Issue No.	12
LM End	0.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.795891 °	38.795891 °
				-121.737098 °	-121.737098 °
DWR ID	DWR_RD0787_01_s_2017_12				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
50' crack beginning to develop on wateride slope. Recommend monitoring.					

Photo 1 of 1 : SP_2017_RD0787_212_12_20170504_00014.jpg



View of slope stability location on waterside slope. Spring 2017.

LM Start	0.77	Rating **	M	Issue No.	15
LM End	0.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.795996 °	38.795996 °
				-121.737493 °	-121.737493 °
DWR ID	DWR_RD0787_01_s_2017_15				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
50' slough section on waterside slope.					

Photo 1 of 1 : SP_2017_RD0787_212_15_20170504_00015.jpg



View of sloughing on waterside slope. Spring 2017.

LM Start	0.78	Rating **	M	Issue No.	16
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.796042 °	38.796042 °
				-121.737661 °	-121.737661 °
DWR ID	DWR_RD0787_01_s_2017_16				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Sloughing on waterside slope.					

Photo 1 of 1 : SP_2017_RD0787_212_16_20170504_00016.jpg



View of sloughing on waterside slope. Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	05/04/2017 05/04/2017	Zach Jojola

LM Start	1.35	Rating **	M	Issue No.	17
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.800375 °	38.800375 °
				-121.746283 °	-121.746283 °
DWR ID	DWR_RD0787_01_s_2017_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.58	Rating **	M	Issue No.	13
LM End	2.73	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.801794 °	38.809506 °
				-121.750204 °	-121.768979 °
DWR ID	DWR_RD0787_01_s_2012_13				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 3 : SP_2017_RD0787_212_13_20170320_00003.jpg



Agricultural ditch runs along landside the distance of the district.

LM Start	1.58	Rating **	M	Issue No.	13 (cont)
LM End	2.73	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP_2017_RD0787_212_13_20170320_00004.jpg



A view of the agricultural ditch in the fall of 2011.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	05/04/2017 05/04/2017	Zach Jojola

LM Start	1.58	Rating **	M	Issue No.	13 (cont)	
LM End	2.73	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.801794 °	38.809506 °	
				-121.750204 °	-121.768979 °	
DWR ID	DWR_RD0787_01_s_2012_13					
Comment Code						
DT : Ditch						
Inspector Comment						

Photo 3 of 3 : SP_2017_RD0787_212_13_20170320_00005.jpg



The agricultural ditch runs along the toe of the levee. Spring 2014

LM Start	1.73	Rating **	M	Issue No.	11
LM End	1.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.802693 °	38.802693 °
				-121.752672 °	-121.752672 °
DWR ID	DWR_RD0787_01_f_2016_11				
Comment Code					
GA : Garbage					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD0787_212_11_20170320_00002.jpg



Burnt loudspeaker near levee crown on waterward side. Fall 2016.

LM Start	1.93	Rating **	M	Issue No.	18
LM End	3.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.803949 °	38.816212 °
				-121.756047 °	-121.782124 °
DWR ID	DWR_RD0787_01_s_2017_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0787 Fair

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	4.45	05/04/2017 05/04/2017	Zach Jojola

LM Start	3.13	Rating **	M	Issue No.	14 (cont)
LM End	4.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.812963 °	38.822302 °
				-121.774880 °	-121.795295 °
DWR ID	DWR_RD0787_01_s_2012_14				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 3 of 3 : SP_2017_RD0787_212_14_20170320_00008.jpg



The agricultural ditch runs along the toe of the levee slope. Spring 2014

LM Start	3.58	Rating **	U	Issue No.	20
LM End	4.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.816212 °	38.822494 °
				-121.782124 °	-121.795599 °
DWR ID	DWR_RD0787_01_s_2017_20				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD0787_212_20_20170504_00017.jpg



Tall grass on waterside levee slope, blocking visibility. Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---